```
eq_pred_abstraction  THM

⊢  ∀'a:Type, P:(('a→'a→𝔹)→Prop).
|  P(<eq_pred:(λx:'a. λy:'a. x =_b y)>) ⟺ (∀f:eq('a). P(f))
| by Unab [`eq_pred_marker`] THEN StrongAuto
|
|\
| 1. 'a : Type
| 2. P : ('a→'a→𝔹)→Prop
| 3. P(λx:'a. λy:'a. x =_b y)
| 4. f : eq('a)
| ⊢  P(f)
|   by RW
|      (TopC
|       (LemmaC
|        Thm* ∀f:eq('a). f = (λx:'a. λy:'a. x =_b y) ∈ 'a→'a→𝔹
|        {eq_pred_char}))
|      0
|      THEN
|      StrongAuto
|
.\
. 1. 'a : Type
. 2. P : ('a→'a→𝔹)→Prop
. 3. ∀f:eq('a). P(f)
. ⊢  P(λx:'a. λy:'a. x =_b y)
. | by InstHyp [λx:'a. λy:'a. x =_b y] 3 THEN StrongAuto
. |
. .....wf .....
. 1. 'a : Type
. 2. P : ('a→'a→𝔹)→Prop
. 3. ∀f:eq('a). P(f)
. ⊢  (λx:'a. λy:'a. x =_b y) ∈ eq('a)  by Analyze THEN StrongAuto
END
```